



Mouse Genome Informatics
MGI Home Help

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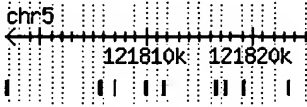


last database update

?

Gene Detail

Your Input Web

Symbol Name ID	P2rx7 purinergic receptor P2X, ligand-gated ion channel, 7 MGI:1339957			Nomenclature																												
Synonyms	P2X7 receptor																															
Genetic Map	Chromosome 5 cytoband F Mapping data(<u>2</u>)																															
Sequence Map	121796777-121834215 bp, + strand (From Ensembl annotation of NCBI Build 34) Ensembl ContigView UCSC Browser NCBI Map Viewer			 MGI Mouse GBrowse																												
Mammalian homology	human; rat (Mammalian Orthology)																															
Sequences	<table><thead><tr><th></th><th>Representative Sequences</th><th>Length</th><th>Strain/Species</th></tr></thead><tbody><tr><td><input type="checkbox"/> genomic</td><td>ENSMUSG00000029468</td><td>37439</td><td>C57BL/6J</td></tr><tr><td></td><td></td><td></td><td>Ensembl Gene Model MGI Sequence Detail</td></tr><tr><td><input type="checkbox"/> transcript</td><td>NM_011027</td><td>4931</td><td>C57BL/6</td></tr><tr><td></td><td></td><td></td><td>RefSeq MGI Sequence Detail</td></tr><tr><td><input type="checkbox"/> polypeptide</td><td>Q9Z1M0</td><td>595</td><td>Not Applicable</td></tr><tr><td></td><td></td><td></td><td>SWISS-PROT EBI MGI Sequence Detail</td></tr></tbody></table> <p>For the selected sequences download in FASTA format Go</p> <p>All sequences(<u>40</u>)</p>					Representative Sequences	Length	Strain/Species	<input type="checkbox"/> genomic	ENSMUSG00000029468	37439	C57BL/6J				Ensembl Gene Model MGI Sequence Detail	<input type="checkbox"/> transcript	NM_011027	4931	C57BL/6				RefSeq MGI Sequence Detail	<input type="checkbox"/> polypeptide	Q9Z1M0	595	Not Applicable				SWISS-PROT EBI MGI Sequence Detail
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Phenotypes	All phenotypic alleles(<u>5</u>) : Targeted, knock-out(<u>4</u>) Spontaneous(<u>1</u>) Mice homozygous for disruptions in this gene are fertile and viable with no obvious phenotypic abnormality. Cellular responses of macrophage to extracellular ATP are frequently normal however. In addition, long bones are thinner than normal in adult mice.																															
Polymorphisms	SNPs within 2kb(<u>6</u>)																															
Gene Ontology (GO) classifications	Process cation transport, ion transport... Component integral to membrane, integral to plasma membrane... Function ATP binding, ATP-gated cation channel activity... All GO classifications(<u>13</u>)																															
Expression	cDNA source data(<u>27</u>)																															
Other database links	DoTS DT.101316192 , DT.487689 , DT.91336254 , DT.94273607 , DT.99849462 UniGene 42026																															

04/05/2006
MGI 3.43

	TIGR Entrez Gene	TC1521182 , TC1556876 , TC1567606 18439
Protein domains	InterPro ID Description IPR001429 ATP P2X receptor IPR003050 P2X7 purinoceptor Graphical View of Protein Domain Structure	
Molecular reagents	All nucleic(29) cDNA(29)	
References	(Earliest) J:51040 Chessell IP <i>et al.</i> , "Cloning and functional characterisation of mouse P2X7 receptor." FEBS Lett 1998 Nov 13;439(1-2):26-30 (Latest) J:105908 Li J <i>et al.</i> , "The P2X7 nucleotide receptor mediates skeletal mechanotransduction." J Biol Chem 2005 Dec 30;280(52):42952-9 All references(24)	
Other accession IDs	MGI:2140909	